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Automatic system alerts on Primo or, How to respond to a system outage in your sleep

Deborah Fitchett

Library, Teaching and Learning, Lincoln University

1st June 2018

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The problem



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The solution



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Step 1 – System status



System Status

[System Status](#)[Single Tenant](#)[Privacy Policy](#)[Security](#)

	Instances	Email Alerts	Current Status	May-22	May-21	May-20	May-19	May-18	Scheduled Maintenance
<input checked="" type="checkbox"/>	Alma AP01								
<input checked="" type="checkbox"/>	Primo MT APAC01								



Service is operating normally



Information/Service Alert Information



Performance issues



Service disruption



Scheduled maintenance



<http://status.exlibrisgroup.com/>



https://status.exlibrisgroup.com/?page_id=5511

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Step 2 – Access the API

```
function getStatus($url,$envs) {  
    global $use_cached_data, $curl_opt_ssl_verifypeer;  
    if ($use_cached_data == true) {  
        $result = checkCache($url.$envs);  
    } else {  
        $result = false;  
    }  
    if (!$result) {  
        $data = "act=get_status&client=xml&envs=".$envs;  
        $ch = curl_init($url);  
        curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);  
        curl_setopt($ch, CURLOPT_HTTPHEADER, array('Content-Type: application/x-www-form-urlencoded'));  
        curl_setopt($ch, CURLOPT_POST, true);  
        curl_setopt($ch, CURLOPT_POSTFIELDS, $data);  
        curl_setopt($ch, CURLOPT_SSL_VERIFYPEER, $curl_opt_ssl_verifypeer);  
        $result = curl_exec($ch);  
        curl_close($ch);  
        if (!$result) {  
            $result = getCache($url.$envs);  
        } else {  
            createCache($url.$envs,$result);  
        }  
    }  
    return $result;  
}
```



Step 3 – Parse the results

```
$status = simplexml_load_string(getStatus($url,$envs));

foreach($status->instance as $i) {
    if ($i->attributes()->service == "Alma") {
        $status_A = (array)($i->attributes()->status);
        $note_A = preg_replace('/\s/', ' ',(string)($i->schedule));
    }
    if ($i->attributes()->service == "Primo") {
        $status_P = (array)($i->attributes()->status);
        $note_P = preg_replace('/\s/', ' ',(string)($i->schedule));
    }
}

$status_A = $status_A[0];
$status_P = $status_P[0];

$pattern = '/(\d*-\w{3}-\d{4} UTC \d*:\d{2}:\d{2})(.*)/';
if (preg_match($pattern,$note_A,$match_A)) {
    $note_A = explode('UTC', $match_A[2]);
    $note_A = $note_A[count($note_A)-1];
    $note_A = $match_A[1]. ' ' . $note_A;
    $note_A = strip_tags($note_A);
    $note_A = preg_replace('/[^a-zA-Z0-9:.-]/','',$note_A);
}
```




Step 4 – .js.php

```
status_A = '<? echo $status_A; ?>';  
note_A = '<? echo $note_A; ?>';  
status_P = '<? echo $status_P; ?>';  
note_P = '<? echo $note_P; ?>';
```

```
if (status_A == "PERF" || status_A == "ERROR" || status_A == "MAINT") {  
    theAlert = theAlert + 'Automated note: <strong>' + '<? echo $readable_status[$status_A]; ?>' + '</strong>';  
    if (status_A == "MAINT") {  
        theAlert = theAlert + ' in progress';  
    } else {  
        theAlert = theAlert + ' detected';  
    }  
    theAlert = theAlert + '. Some functions (eg requests, renewals, availability statuses, and/or links to full-text) may be ';  
    if (status_A == "PERF") {  
        theAlert = theAlert + 'slow';  
    } else {  
        theAlert = theAlert + 'temporarily unavailable';  
    }  
}  
if (status_P == "PERF" || status_P == "ERROR" || status_P == "MAINT") {  
    theAlert = theAlert + 'Automated note: <strong>' + '<? echo $readable_status[$status_P]; ?>' + '</strong>';  
    if (status_P == "MAINT") {  
        theAlert = theAlert + ' in progress';  
    } else {
```

Step 5 – DOM

```
function warningNote(warningText) {  
    var warningPlace = document.getElementsByTagName("prm-search-bar")[0];  
    var warningNote = document.createElement("div");  
    warningNote.id = "warningNote";  
    warningNote.className = "bar alert-bar layout-align-center-center layout-row";  
    warningNote.innerHTML = warningText;  
    warningPlace.parentNode.insertBefore(warningNote,warningPlace.nextSibling);  
}
```




Step 6 – Angular JS

```
(function () {  
    "use strict";  
    'use strict';  
    var app = angular.module('viewCustom', ['angularLoad']);  
  
    /* Begin prmMainMenuAfter */  
    app.component('prmMainMenuAfter', {  
        bindings: { parentCtrl: '<' },  
        controller: function($scope) {  
            /* Add in Warning Note script */  
            setTimeout(function() {  
                var y = document.getElementsByTagName("script")[0];  
                var z = document.createElement("script");  
                z.type = "text/javascript";  
                z.async = true;  
                z.src = "https://yourdomain.edu/path/to/warningnote/warningnote.js.php"; // your url here!  
                y.parentNode.insertBefore(z, y);  
                // add note 3 seconds after main menu loads - modify to suit your environment  
            }, 3000);  
            /* End Warning Note */  
        }  
    });  
    /* End prmMainMenuAfter */  
  
})();
```

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Full service will be restored as soon as possible. In the meantime you may wish to [search directly through our databases](#). We apologise for the inconvenience.

☐ Include items with no full text
to request interloan, purchase
etc



Sheep. | 1960

P. G. Stevens, (Percival George), 1901-1980.



Available in: Main Shelves (SF375.5 .N45 Ste 2nd ed) and other copies

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Book



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Config

```
<?php
```

```
$alma = ""; // eg "Alma AP01";
```

```
$primo = ""; // eg "Primo MT APAC01";
```

```
$use_cached_data = true;
```

```
$cache_folder = 'cache/';
```

```
$cache_seconds = 1 * 60;
```

```
$manual_note = "warningnote.txt";
```

```
$curl_opt_ssl_verifypeer = true;
```

```
$readable_status = array(
```

```
    'OK' => 'Operating normally',
```

```
    'PERF' => 'Performance issues',
```

```
    'ERROR' => 'Service disruption',
```

```
    'MAINT' => 'Scheduled maintenance',
```

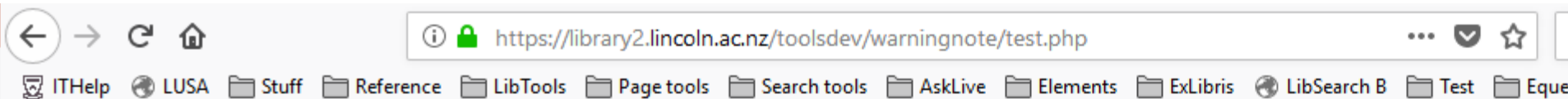
```
    'SERVICE' => 'Operating normally but note: ',
```

```
);
```

```
$auto_apology = "Full service will be restored as soon as possible. In the meantime you may wish to search directly through our databases.  
We apologise for the inconvenience."; //remember to escape any double-quotes eg \"
```

```
?>
```

Test page



Are all files present?

- ✓ **cache.php**: present and accounted for.
- ✓ **config.php**: present and accounted for.
- ✓ **status.php**: present and accounted for.
- ✓ **warningnote.js.php**: present and accounted for.

Is your configuration correct?

Check these settings and make any edits necessary in config.php.

- ? Your **Alma instance** is recorded as: Alma AP01
- ✗ Your **Primo instance** is not defined.
- ✗ You **are not** using the caching functionality. It's recommended to change \$use_cached_data to *true* to avoid overloading the API, especially if your site is heavily used.
- ✓ You can add a **manual note** to the file: warningnote.txt. Currently this file contains the text: "This is a test manual note. Usually you'll want a blank file."
- ? **Automated statuses** will be described as: "Performance issues", "Service disruption", or "Scheduled maintenance" (with some elaboration per warningnote.js.php).
- ? Automated warnings will **conclude** with: "Full service will be restored as soon as possible. In the meantime you may wish to search directly through our databases. We apologise for the inconvenience."

Can you communicate with other websites?

- ✓ You can **post data** to other websites (or at least to <https://httpbin.org/post>) and receive the response.

Is caching working?

Code: <https://github.com/LincolnUniLTL/warningnote>

